

This listing of claims replaces all prior versions, and listings, of claims in this application.

Listing of Claims:

1. (Currently Amended) A method for transmitting information over a time ~~division~~
~~multiple-access data~~ communications duplexed link when the link is subject to an interference,
the method comprising:

transmitting the information within a first assigned time slot ~~on the wireless data~~
of the time communications duplexed link;

assigning a second time slot of the time communications duplexed link upon
which a redundant copy of the information is to be transmitted, wherein the second time
slot is spaced in time from the first assigned time slot by a duration greater than a typical
duration of an interference burst; and

transmitting the redundant copy of the information within the second time slot of
the time communications duplexed link.

2. (Currently Amended) A method for transmitting data packets over a time ~~division~~
~~multiple-access data~~ communications duplexed link when the link is subject to an interference,
the method comprising:

detecting presence of periodic bursts of the interference;

assigning a first time slot and a second time slot of the time communications
duplexed link upon which data packets can be transmitted, wherein the second time slot

is spaced in time from the first time slot by a duration greater than a typical duration of a period burst of the interference;

transmitting the data packets on the first time slot of the time communications duplexed link; and

transmitting a redundant copy of the data packet on the second time slot of the time communications duplexed link.

3. (Previously Amended) The method of claim 2, wherein detecting presence of periodic bursts of the interference further comprising:

observing timing at which data packets with errors are received; and

determining from the observed timing that received data packets with errors are periodically spaced in time.

4. (Previously Amended) The method of claim 2, in which the data packets are sent from a transmitter to a receiver and the receiver is powered by an AC power source, the detecting presence of periodic bursts of the interference further comprising:

detecting timing of the AC power source;

observing phase of the AC power source at the time a data packet with an error is received by the receiver; and

receiving subsequent data packets with errors by the receiver when the phase of the AC power source is equal to the observed phase.

5. (Previously Amended) The method of claim 8, in which the step of detecting the presence of the interference further comprising:

selecting one of a first threshold value if the interference have been previously detected and a second threshold value if the interference have not been previously detected;

monitoring error rate of information transmitted over the data link; and

determining that the error rate has exceeded the selected threshold value.

6. (Previously Amended) The method of claim 2, in which the data packets are exchanged between a first transceiver and a second transceiver, further comprising transmitting from the first transceiver to the second transceiver an indication as to whether the second transceiver should communicate via the first time slot or the second time slot, and transmitting the data packet on a time slot selected by the second transceiver.

7. (Currently Amended) A method for transmitting data packets over a time ~~division~~ multiple access data communications duplexed link when the link is subject to bursts of interference that occur periodically with a known period between bursts and are short in duration relative to the duration of a data frame, ~~and where the data packets are transmitted in frames of duration that is a multiple of fraction of the interference burst period~~, the method comprising:

detecting a data frame phase with respect to the bursts of interference;

synchronizing the data frame phase to the bursts of interference, such that the bursts of interference occur during a predetermined time slot in the data frame phase;

transmitting data packets in one time slot of the time communications duplexed link during which the bursts of interference does not occur; and
transmitting a redundant copy of the data packet on another time slot of the time communications duplexed link during which the bursts of interference does not occur.

8. (Previously Added) The method of claim 1, wherein the information is a data packet and the redundant copy of the information is a redundant copy of the data packet.
9. (Currently Amended) The method of claim 1, further comprising detecting presence of the interference before assigning the second time slot of the time communications duplexed link upon which the redundant copy of the information is to be transmitted.
10. (Previously Added) The method of claim 1, wherein the interference is originated from a microwave oven.